

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/803,063

Source: _____

Date Processed by STIC: _____

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RAW SEQUENCE LISTING

DATE: 10/18/2004

PATENT APPLICATION: US/10/803,063

TIME: 09:50:23

Input Set : N:\Crf3\RULE60\10803063.raw.txt
 Output Set: N:\CRF4\10182004\J803063.raw

1 <110> APPLICANT: Gonsalves, Dennis
 2 Meng, Baozhong
 3 <120> TITLE OF INVENTION: RUPESTRIS STEM PITTING ASSOCIATED VIRUS
 4 NUCLEIC ACIDS, PROTEINS, AND THEIR USES
 5 <130> FILE REFERENCE: 07678/035004
 6 <140> CURRENT APPLICATION NUMBER: US/10/803,063
 7 <141> CURRENT FILING DATE: 2004-03-16
 8 <150> PRIOR APPLICATION NUMBER: US/09/568,189
 9 <151> PRIOR FILING DATE: 2000-05-09
 10 <150> PRIOR APPLICATION NUMBER: 60/047,147
 11 <151> PRIOR FILING DATE: 1997-05-20
 12 <150> PRIOR APPLICATION NUMBER: 60/069,902
 13 <151> PRIOR FILING DATE: 1997-12-17
 14 <150> PRIOR APPLICATION NUMBER: 09/081,320
 15 <151> PRIOR FILING DATE: 1998-05-19
 16 <160> NUMBER OF SEQ ID NOS: 97
 17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 19 <210> SEQ ID NO: 1
 20 <211> LENGTH: 8743
 21 <212> TYPE: DNA
 22 <213> ORGANISM: Rupestris stem pitting associated virus
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 26 acaatccagg gtttctgcta cagctctcaa ggcattagta gacttagagg aaagtcagca 180
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 36 cccttgggcc taccagtata aaatcaatgg caaccaactg ctcttcgcac cagatggcaa 780
 37 ctggaatgag atgtactcac aacctttgtc atgcagatac ctgctcaagg ccagatctgt 840
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 41 cccagtacat catgatgtt taactaagat atatctttat ttgagaactc tcaagaagcc 1080
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 44 gcttatgccc aacatttcta agttggcat atcattttt tgccggatga tgccaaatgc 1260

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| 96 | ggtttccctt agaaaagttt caggattgaa ggctggccac tttgtgattt ttgtatgaggt | 4380 |
| 97 | ccagttgttt cctcctggat acatcgatct atgcttgcattt attatacgtt gtatgcctt | 4440 |
| 98 | catttcactt gctgggtatc catgtcaaag cacatatgac tcgcaaaagg atcgggcaat | 4500 |
| 99 | tttggcgctt gaggcagatg acataacttag actgcttgcggc ggcggaaatgtt ataggtataa | 4560 |
| 100 | catagaaaaggc aggagggttt tgaacccat gttcgaaatca agactgcccattt gtcacttcaa | 4620 |
| 101 | aaagggctcg atgactgcccctt cttcgctga ttatgcattt ttccataataa tgcatttgcatt | 4680 |
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| 105 | tcggcggtgg cttaactgcattt tatttcgtt cagccacaat ttggattttgg tgaacatcac | 4920 |
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| 120 | ggttcgcttttgcgttccggggccatgttggatgttgcgttccggggccatgttggatgtt | 5820 |
| 121 | taacttcttgcgttccggggccatgttggatgttgcgttccggggccatgttggatgtt | 5880 |
| 122 | ggatttgcgttccggggccatgttggatgttgcgttccggggccatgttggatgtt | 5940 |
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| 138 | caagattttgcgttccggggccatgttggatgttgcgttccggggccatgttggatgtt | 6900 |
| 139 | aaagaggccatgttggatgttgcgttccggggccatgttggatgtt | 6960 |
| 140 | ctttcccttgcgttccggggccatgttggatgttgcgttccggggccatgttggatgtt | 7020 |
| 141 | ccttttacacatgttggatgttgcgttccggggccatgttggatgtt | 7080 |
| 142 | gctgttgcgttccggggccatgttggatgttgcgttccggggccatgttggatgtt | 7140 |

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|-----|--|------|
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| 194 | ataaaagttt tcgaggatt ttcctcaacta gtaataaaatt gtgggaggag tggctcttg | 1140 |
| 195 | cttgcggccaa acatttctaa gttgtcata tcattcttt gccgatgtat gccaaatgca | 1200 |
| 196 | ctcgccaggc tctttcttag cttcgagag tgttcgctag attcatttgcgtatcaactt | 1260 |
| 197 | gagccctta attttccgt taatttagt gatataactc ctgatttctt tgagcattta | 1320 |
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| 206 | tcgtccttttgcacttgggaa cttacaattt aatcgccaga gggccccgtt ctttcttggg | 1860 |
| 207 | gcaataacttc ctgaggcttgcacttgggaa cttacaattt aatcgccaga gggccccgtt | 1920 |
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| 228 | tcagaatgttgcacttgggaa cttacaattt aatcgccaga gggccccgtt ctttcttgggaa cttacaattt aatcgccaga | 3180 |
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| 234 | gagtggccatgcacttgggaa cttacaattt aatcgccaga gggccccgtt ctttcttgggaa cttacaattt aatcgccaga | 3540 |
| 235 | ctgaatgttgcacttgggaa cttacaattt aatcgccaga gggccccgtt ctttcttgggaa cttacaattt aatcgccaga | 3600 |
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| 237 | ggccttaacaacttgcacttgggaa cttacaattt aatcgccaga gggccccgtt ctttcttgggaa cttacaattt aatcgccaga | 3720 |
| 238 | gatataaaatgttgcacttgggaa cttacaattt aatcgccaga gggccccgtt ctttcttgggaa cttacaattt aatcgccaga | 3780 |
| 239 | ataactaatgttgcacttgggaa cttacaattt aatcgccaga gggccccgtt ctttcttgggaa cttacaattt aatcgccaga | 3840 |
| 240 | gtggatgttgcacttgggaa cttacaattt aatcgccaga gggccccgtt ctttcttgggaa cttacaattt aatcgccaga | 3900 |
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:55; Xaa Pos. 3,4,5,7,8,9,11,12,13,14,15,17,18,19,20,21,23,24,25,26,27
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Seq#:55; Xaa Pos. 176,177,178,179,180,182,186,190,191,192,193,196,197,201
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Seq#:55; Xaa Pos. 231,233,235,237,238,240,242,246,247,248,250,252,256,257
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Seq#:59; Xaa Pos. 189,190,191,192,193,194,195,196,197,198,199,200,207,210
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Seq#:63; Xaa Pos. 260,262,264,266,275,276,279,280,281,282,283,284,285,286
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/18/2004
PATENT APPLICATION: US/10/803,063 TIME: 09:50:24

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Output Set: N:\CRF4\10182004\J803063.raw

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Seq#:67; Xaa Pos. 59,60,61,62,63,65,66,68,69,70,71,72,74,75,76,77,79,80,81
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VERIFICATION SUMMARY
PATENT APPLICATION: US/10/803,063

DATE: 10/18/2004
TIME: 09:50:24

Input Set : N:\Crf3\RULE60\10803063.raw.txt
Output Set: N:\CRF4\10182004\J803063.raw

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M:341 Repeated in SeqNo=55
L:1788 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:0
M:341 Repeated in SeqNo=59
L:2027 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:63 after pos.:0
M:341 Repeated in SeqNo=63
L:2249 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:67 after pos.:0
M:341 Repeated in SeqNo=67
L:2391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:71 after pos.:0
M:341 Repeated in SeqNo=71
L:2481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:0
M:341 Repeated in SeqNo=75
L:2544 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:79 after pos.:0
M:341 Repeated in SeqNo=79
L:2633 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0
M:341 Repeated in SeqNo=83
L:2664 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:86 after pos.:0
M:341 Repeated in SeqNo=86
L:2695 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:89 after pos.:0
M:341 Repeated in SeqNo=89
L:2751 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:93 after pos.:0
M:341 Repeated in SeqNo=93